

WHAT IS TO BE CLAIMED:

1. A face alignment device comprising two units that are each provided with:

a convex semi-spherical block having a contact surface that makes contact with a clamp member for securing an object and a convex semi-spherical surface on the opposite side of the contact surface; and

a base block having a concave portion corresponding to the semi-spherical surface of the convex semi-spherical block for rotatably holding the convex semi-spherical block,

10 wherein the two units are arranged such that their contact surfaces face each other.

2. A face alignment device according to claim 1 further comprising an air layer forming means for forming an air layer between each of the semi-spherical surfaces of the convex semi-spherical blocks and each of the concave portions of the base blocks; and a moving means for moving the two base blocks to be close to or apart from each other.

3. A face alignment device according to claim 1, wherein the clamp member is provided with a bearing so that it can rotatably hold the object.

4. A face alignment device according to claim 2, wherein the clamp member is provided with a bearing so that it can rotatably hold the object.

5. A face alignment device according to claim 1, wherein the object is held outside the two units by the clamp member, while a weight is provided at the other end of the clamp member opposite to the object.

6. A face alignment device according to claim 2, wherein the object is held outside the two units by the clamp member, while a weight is provided at the other end of the clamp member opposite to the object.

7. A face alignment device according to claim 3, wherein the object is held outside the two units by the clamp member, while a weight is provided at the other end of the clamp member opposite to the object.

8. A face alignment device according to claim 4, wherein the object is held outside the two units by the clamp member, while a weight is provided at the other end of the clamp member opposite to the object.

9. A face alignment method, comprising:

arranging two units, which are each provided with a convex semi-spherical block having a contact surface that makes contact with a clamp member for securing an object and a convex semi-spherical surface on the opposite side of the contact surface, and a base block having a concave portion corresponding to the semi-spherical surface of the convex semi-spherical block for rotatably holding the convex semi-spherical block, such that the contact surfaces of the two units face each other; and

securing one of the objects with the clamp member, wherein the clamp member is arranged on the contact surfaces of the two units at eccentric positions from the center axes of the convex semi-spherical block.

10. A face alignment method, comprising:

arranging two units, which are each provided with a convex semi-spherical block having a contact surface that makes contact

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with a clamp member for securing an object and a convex semi-spherical surface on the opposite side of the contact surface, and a base block having a concave portion corresponding to the semi-spherical surface of the convex semi-spherical block for rotatably holding the convex semi-spherical block, such that the contact surfaces of the two units face each other; and

securing one of the objects with the clamp member,
wherein the faces of the objects are aligned while the clamp member is arranged on the contact surfaces of the units such that the center point of the face of one of the objects corresponds to a center point of an imaginary sphere formed by the facing semi-spherical surfaces of the convex semi-spherical blocks.